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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/444,166	11/22/1999	YOSHIMASA HOSONUMA	13167	8299	
23389	7590 05/08/2003				
SCULLY SCOTT MURPHY & PRESSER, PC			EXAMINER		
	CITY PLAZA TY, NY 11530	SHARMA, SUJATHA R			
			ART UNIT	PAPER NUMBER	
			2681	10	
	•		DATE MAILED: 05/08/2003	1	

Please find below and/or attached an Office communication concerning this application or proceeding.

			Applicati	on No.	Applicant(s)					
			09/444,1	66	HOSONUMA, YOSHI	MASA				
**	Office Action Summary	Examine	r	Art Unit						
			Sujatha		2681					
Peri	od fo	The MAILING DATE of this communication a or Reply	ppears on th	e cover sheet with the	correspondence addre	SS				
- - - -	A SH FHE Exte after If the If NO Failu Any eam	IORTENED STATUTORY PERIOD FOR REP MAILING DATE OF THIS COMMUNICATION insions of time may be available under the provisions of 37 CFR 10 SIX (6) MONTHS from the mailing date of this communication, a period for reply specified above is less than thirty (30) days, a report of the provisions of the period for reply is specified above, the maximum statutory period in the provision of the period for reply will, by stature to reply within the set or extended period for reply will, by stature ply received by the Office later than three months after the mailed patent term adjustment. See 37 CFR 1.704(b).	l. 1.136(a). In no ex aply within the sta d will apply and v ute, cause the ap	vent, however, may a reply be to tutory minimum of thirty (30) da vill expire SIX (6) MONTHS fror olication to become ABANDON	imely filed ys will be considered timely. In the mailing date of this comm ED (35 U.S.C. § 133).	unication.				
Stat	us I)⊠	Responsive to communication(s) filed on 03	R March 200	3						
	i)	• • • • • • • • • • • • • • • • • • • •	This action is							
	3)	,—			prosecution as to the m	nerits is				
	•	closed in accordance with the practice unde ion of Claims								
4	\$)⊠	Claim(s) 1-18 is/are pending in the application	on.							
		4a) Of the above claim(s) is/are withdrawn from consideration.								
5	5)	Claim(s) is/are allowed.								
6	S)⊠	☑ Claim(s) <u>1-3,5,7-9,11,13-15 and 17</u> is/are rejected.								
		Claim(s) 4,6,10,12,16 and 18 is/are objected								
		Claim(s) are subject to restriction and	or election i	equirement.						
		ion Papers								
	•	The specification is objected to by the Examir		lations de by the Eve	amin or					
10	יווי	The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to		-						
11	Л ГП.	The proposed drawing correction filed on								
•	,	If approved, corrected drawings are required in r								
12	2) 🔲	The oath or declaration is objected to by the E								
Prio	rity (under 35 U.S.C. §§ 119 and 120								
		Acknowledgment is made of a claim for foreign	gn priority u	nder 35 U.S.C. § 119(a)-(d) or (f).					
	a)	☐ All b)☐ Some * c)☐ None of:								
		1. Certified copies of the priority document	nts have bee	en received.						
		2. Certified copies of the priority document	nts have bee	en received in Applica	tion No					
	* 5	Copies of the certified copies of the pri application from the International E See the attached detailed Office action for a list	Bureau (PCT	Rule 17.2(a)).		ıge				
14) [<i>A</i>	Acknowledgment is made of a claim for domes	stic priority u	nder 35 U.S.C. § 119	(e) (to a provisional ap	plication).				
15		 The translation of the foreign language p Acknowledgment is made of a claim for dome. 								
Attac	hmen	nt(s)								
1) 🔯 2) 🔲 3) 🔲	Notic	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s)	··	· <u></u>	ry (PTO-413) Paper No(s) Patent Application (PTO-15					

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DETAILED ACTION

Response to Arguments

The examiner is withdrawing the finality of the previous office action on grounds of newly found prior art. A non-final rejection of the claims is presented in the enclosed office action.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claim 1-3,5,7 is rejected under 35 U.S.C. 102(b) as being anticipated by Eda [5,387,888]. Regarding claims 1,7,13, Eda discloses a high frequency ceramic multiplayer substrate. Eda discloses a flexible board comprising of an internal layer comprising of a line formed in a first area of the said internal layer (1, 2, 2' in Fig.1), a first ground layer formed on the upper surface of the said internal layer (3 in Fig.1) and a second ground layer formed on a lower surface of said internal layer (4 in Fig.1) and the ground layers disallowing the radiation to pass through (See summary of invention and column 1, lines 28-38, column 9, lines 59-63).

Regarding claims 2,8,14 Eda as treated in claim 1 discloses a high frequency multi-layer substrate such as used in cellular telephones comprising of 2 ground electrodes, one on the top and the other at the bottom of the dielectric layer and hence is inherent that the top cover for the electronic device is formed over the first ground layer on top and the bottom cover is formed over the second ground layer at the bottom.

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Regarding claim 3,9,15 it is inherent for the flexible board formed by the multi-layer substrate to use adhesive layers between the various layers in order to hold the multi-layer substrate together. Regarding claims 5,11,17 Eda discloses via holes connecting the ground layers with the internal layer thus connecting the first ground layer and the second ground layer (See summary of invention).

Allowable Subject Matter

- 3. Claims 4,6,10,12,16 and 18 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 4. The following is a statement of reason for the indication of allowable subject matter:
- 5. Prior art fails to disclose a ground line formed in a second area except said first area in said internal layer and wherein plurality of through holes is formed throughout said first ground layer, said ground line and said second ground layer, said through holes electrically connecting said first ground layer, said ground line and said second ground layer to one another.

Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Tonegawa [US 6,252,778] discloses a complex electronic component.

Onishi [US 5,459,368] discloses a surface acoustic wave device mounted module.

Yoshikawa [US 5,796,165] discloses a high-frequency integrated circuit device having a multilayer structure.

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7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sujatha Sharma whose telephone number is 703-305-5298. The examiner can normally be reached on Mon-Fri 7.30am - 4.00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dwayne Bost can be reached on 703-305-4778. The fax phone numbers for the organization where this application or proceeding is assigned and for all official communications is 703-872-9314.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-3800.

Sujatha Sharma May 2, 2003 **Je**an Gelin **Pa**tent examine

Jean Heland Geli